

SMDA130 SERIES

130W Desktop Power Supply for Medical Equipment



- Wide Operating Voltage 90 to 260 VAC, 47 to 63Hz
- IEC-320-C14 input inlet
- Single Output
- Crowbar Mode Over Voltage Protection
- Input to Output : 2MOPP
- ON/OFF SWICH(Optional)
- High ESD immunity
- Suitable professional healthcare facility
- Class I system

5 Year Warranty

Approvals:

Single Output

Product Number	Output Voltage	Max. Output Current	Total Regulation	Maximum Output Power
SMDA130-S05	12 VDC	10.84 A	5%	130W
SMDA130-S08	24 VDC	5.42 A	3%	130W

Total Regulation is guaranteed by below configuration.
 SMDA130-S05 is required to use AWG16*5C/4FT output cable.
 SMDA130-S08 is required to use AWG18*4C/4FT output cable.

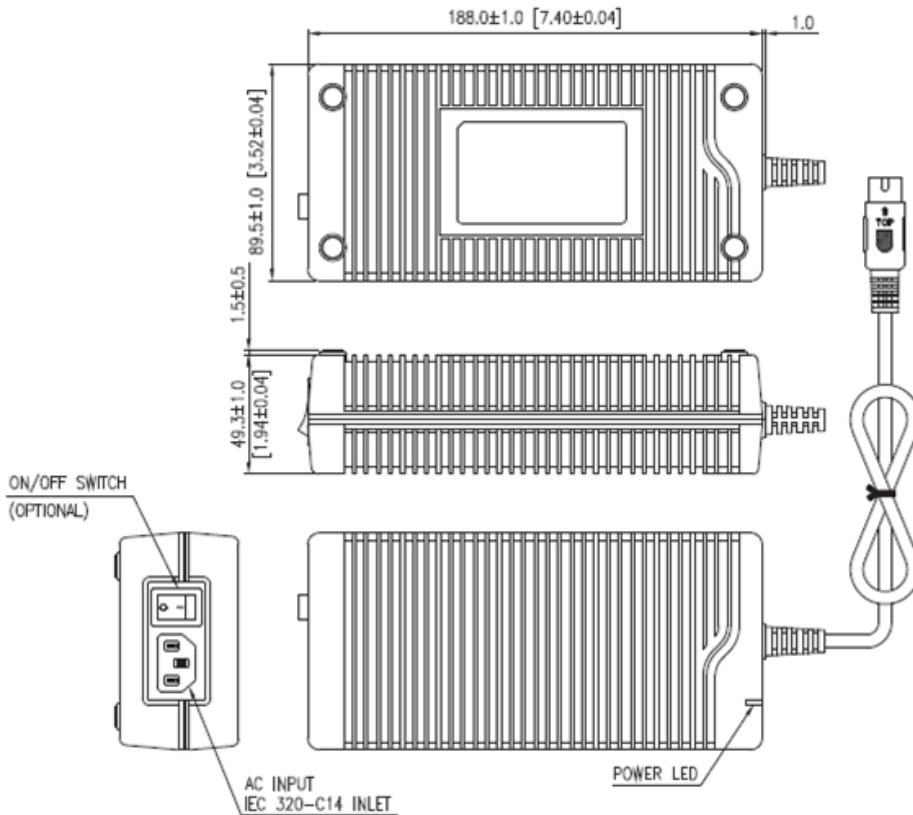
Electrical Characteristics

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Safety Approvals Input Voltage Range	Safety Approval & Specification in Label	100		240	VAC
Operate Voltage Range		90		260	VAC
Input Frequency	Sine wave	47		63	Hz
Power Factor Correction		0.95		1	
Output Power Range	See Rating Chart			130	W
Low Line Input Current	Full load, Vin=100VAC			1.58	A
High Line Input Current	Full load, Vin=240VAC			0.64	A
Low Line Input Inrush Current	Full load, 25°C, Cool start, Vin=100VAC			30	A
High Line Input Inrush Current	Full load, 25°C, Cool start, Vin=240VAC			50	A
Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.1	mA
Efficiency	Full Load, Vin=230VAC	86.1		88.7	%
Line Regulation	Full Load, Vin=100~120VAC or 200~240VAC	0.5		1	%
Over Voltage Protection		112		132	%
Over Load Protection	Recovers automatically after fault condition is removed	110		150	%
Time of Transient Response	Io=Full Load to Half Load, Vin=110VAC			4	ms
Hold-Up Time	Full Load, Vin=100VAC			16	ms
Start Up Time	Full Load, Vin=100~240VAC			2	s
Insulation Resistance		50			MΩ
Ripple & Noise (Peak to Peak)				1	%
Temperature Coefficient	All output			±0.04	%/°C
Dielectric Withstanding Voltage(P-S)	Primary to Secondary, limit current<10mA			4000	VAC
Dielectric Withstanding Voltage(P-G)	Primary to PE, limit current<10mA			1500	VAC
EMC Emission	Compliance to EN55011(CISPR11), EN60601-1-2	B			Class

Environmental

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature	Derate linearly from 100% load at 40 to 50% load at 70	-10		70	°C
Storage Temperature	10~95% RH	-40		85	°C
Operating Humidity	non-condensing	0		95%	RH
Storage Humidity		0		95%	RH
Electro Static Discharge	Air Discharge, IEC61000-4-2			15	KV
Electro Static Discharge	Contact Discharge, IEC61000-4-2			8	KV
Mean Time Between Failure	Operation Temperature at 25 °C, Calculated per MIL-HDBK-217F	200K			h
Operating Altitude (Elevation)	All Condition			3000	m
Vibration	10~500Hz,10min./1cycle, 60min.each along X, Y, Z axes			5	G
Surge Voltage	Line-Neutral			1	KV
Surge Voltage	Line-PE & Neutral-PE			2	KV

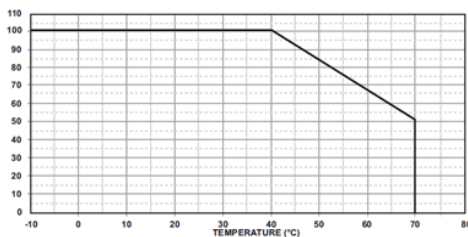
Mechanical Diagram



Note:

1. Dimensions are shown in mm.
2. Weight: 778-800g approx. (Exclude the input cord)
3. Optional output connector.

Derating Chart



1. Operating Temperature: -10 to 70°C
2. Derate linearly from 100% load at 40°C to 50% load at 70°C